DOCUMENT CONTROL PROCESSING FORM								
File Number:	DESN0770 Item No. 01							
Document Date:	05/19/20							
Document Type:	Forms: DQA Form, RCS	SR form						
DCPF Author:	Kevin W.							
Subject:	Final: Drainage Mainter	Final: Drainage Maintenance Manual						
To (Company):	WSDOT	To (Individual):	PARSHOTAM AJUDIA					
From (Company):	Jacobs	From (Individual):	Eric Crowe					
Additional Subject and/or Keywords		Schedule Activity:	N/A					
			Yes No					
Distribution:		Attachments						
Drainage Distribu	ution	1						
		Notes:						
		†						
		1						
		\dashv						

Design Quality Audit Checklist

DESIGN PACKAGE/SUBMITTAL NAME: Final Drainage Maintenance Manual								
DISCIPLINE: Drainage	AUDIT DATE(S): 05/19/2020							
AUDIT ITEM(S): Final Drainage Maintenance Manuarl; Manual check Print;RCSR Form	CONFORMS							
AUDITOR: Steve Kitterman	YES	NO	N/A					
1. Calculations: a) Have both original documents and check prints been provided for audit? b) Are procedures for marking-up check prints being followed (R-Y-G)? (Red/Yellow – Checker, Green – Backchecker/Checker, Yellow – Verifier) c) Are the check prints appropriately signed-off and dated? d) Have Checker comments been incorporated/addressed/resolved? e) Did the checker sign-off and date the original documents?	00 000	00 000						
 2. Computer Calculations: a) Have computer programs been approved/ verified? – Programs Used: b) Has computer input been checked? c) For non-verified spreadsheets, has input and output been checked? d) Are the check prints appropriately signed-off and dated? e) Have Checker comments been incorporated/addressed/resolved? 								
 3. Drawings/Plan Sheets: a) Have Inter-Discipline Design Check (IDC) reviews been performed? Have Reviewer comments been incorporated or addressed? Did each Reviewer sign-off and date the review print? b) Have both original documents and check prints been provided for audit? c) Are procedures for marking-up check prints being followed (R-Y-G)? d) Are the check prints appropriately signed-off and dated? e) Have Checker comments been incorporated/addressed/resolved? f) Has the WSDOT spreadsheet for CADD conformance (symbology, naming) been provided? 								
4. Specifications: a) Have both original documents and check prints been provided for audit? b) Are procedures for marking-up check prints being followed (R-Y-G)? c) Are the check prints appropriately signed-off and dated? d) Have Checker comments been incorporated/addressed/resolved?								
5. Other Design Documents (Reports, Deviations, etc): a) Have both original documents and check prints been provided for audit? b) Are procedures for marking-up check prints being followed (R-Y-G)? c) Are the check prints appropriately signed-off and dated? d) Have Checker comments been incorporated/addressed/resolved?								
6. Reviews: Were scheduled design reviews completed? — Do review comments have an agreed upon action code? — Are the review comments incorporated/addressed/resolved? — Have corrections been verified (signed-off) on Form RCSR?								
7. The signature below certifies the requirements of Section 4.5 (Design QA Audits and Certification) of the QMP have been fulfilled. DQAM Date 5 19 2020								
8. This Section to be Completed for RFC Packages Only. The signature below certifies that the documents included in this submittal are in compliance with the requirements to be Released For Construction.								
DQAMDate Comments/Notes:			1					

I-405 / SR 167 Interchange Direct Connector Design Build Project Review Comment Summary and Resolution Form

					Submittal Date: 2/12/2020 Comment Due Date: 2/26/2020				
Cor No.	nment By	Sheet No.	Review Comment	Initial Code	Response	Response By	Final Code	Correction Verified by	
		cent Comme	ent: B=Review and Discuss Comment: C=Fvaluated but Not	Incorpo	rated: D=Comment Beyond Scope or Beyond Design	n Phase	***		
	Code: A=Accept Comment; B=Review and Discuss Comment; C=Evaluated but Not Incorporated; D=Comment Beyond Scope or Beyond Design Phase Note: * Indicates Sheet No., Page No. and Line No. or "G" for General Comment; ** Filled out by Design; *** Agreed Resolution (code "B" is not acceptable)								
1	ADB	Gen	The submittal did not include the individual BMP maintenance owners manual sheets as required by RFP 2.14.6.9: "The Design-Builder shall format the documentation of each BMP installation in accordance with the Sample Information Sheets for the Stormwater BMP Maintenance Owner's Manual (Appendix H)." See the attached "BMPMaintenanceSample_I405_Renton Stage1_Complete_MP_1.9_Pond_S1.1.pdf" for the site that was modified by this project, and therefore needs to be updated to include the CABS. This review assumed that those BMP Maintenance Owner's Manuals will be submitted as a separate review package, so comments herein only address the portion of the Maintenance Manual that was submitted.	A	Individual BMP maintenance owners manual sheets have been included.	TPH	A	JDZ	
2	ADB	Gen	Check table heading to avoid word wrapping issues (i.e. Table 3.1.2.1 and 3.1.2.2 have the last letter of some words showing up on the next line.	A	Table headings have been corrected.	TPH	A	JDZ	
3	ADB	Gen	Resolve whether the CABS treatment will be reconstructed per design or replaced by BMPs that are constructible for this contractor.	A	CABS will be reconstructed before the project is closed out. Atkinson is working with WSDOT inspectors to address the failed CABS.	TPH	Α	JDZ	
4	ADB	Gen	The maintenance manual should refer to the special considerations, inspection, and maintenance associated with the FAA Wildlife Hazard Management guidelines that focus on addressing wildlife use, standing water, specific seed mix (omitting clover), etc. Please review the WSDOT Aviation Stormwater Design Manual for maintenance requirements near airports.	A	Section 3.5 has been added to reference the FAA & WSDOT 2008 Aviation Stormwater Design Manual.	TPH	A	JDZ	

I-405 / SR 167 Interchange Direct Connector Design Build Project Review Comment Summary and Resolution Form

Package Description: DESN0762 Preliminary Drainage Maintenance Manual					Submittal Date: 2/12/2020			
Reviewer: Alan Black/WSDOT GEC/Hydraulics (ADB) (Name/Title/Organization)					Comment Due Date: 2/26/2020			
Con	nment	Sheet No.	Review Comment	Initial Response		Response	Final	Correction
No.	Ву	*		Code **		Ву	Code ***	Verified by
5	ADB		RFP Section 2.14.4.17 includes the following, "WSDOT stormwater facilities shall include information plates to aid in identification of 1 maintenance needs at facilities that will be constructed or modified as part of this Project in 2 accordance with Chapter 5 of the HRM" Please include a discussion about where the plates were installed and what information was put in the plates including any list of abbreviations needed to aid in reading the information on the plates.		RFI 0393 has been issued to incorporate information plates in accourdance with HRM Section 5-5.3 and Std. Plans M-24.65-00 and M-24.66-00. Section 3.6 has been added to discuss the stormwater BMP information places.	TPH	A	JDZ
6	ADB		Please add a detailed discussion about the special pipe materials used for the Talbot Bridge crossing complete with the material specification, connection details, provisions for expansion and contraction, support requirements, and paint(?) to assist WSDOT maintenance in understanding what they need to replace if those get damaged.	A	A discussion about the special pipe materials are now included in the maintenance manual. Appendix H has been created to include the manufacturer's technical information and structural details for the pipe hangers.	TPH	A	JDZ
7	ADB		Based on past trouble shooting with WSDOT Maintenance staff, it would be super helpful to include the CABS catchment area figures from the Hydraulic Report as part of the appendices here.	Α	The Post Project WQ Area figures have been included. These figures show the catchment areas for all WQ treatment BMPs.	TPH	А	JDZ